

Remarks

Claims 1-13 remain pending. Claim 13 is currently amended. No new matter is being added.

Claim Rejections--Section 101

Claim 13 was rejected under 35 U.S.C. 101 because "the computer program product is not yet embodied in executable format as a computer component." Applicants have hereby amended claim 13 in accordance with the Examiner's comments in the rejection. Amended claim 13 recites, "A computer-readable medium encoded with a computer program in executable form" Therefore, applicants respectfully submit that this objection is now overcome.

Claim Rejections--Section 102

Claims 1-13 were rejected under 35 U.S.C. 102 as being anticipated by Carini (US 5,740,443). This rejection is respectfully traversed.

The claimed invention pertains to "inline **specialization**" (emphasis added). As defined in claim 1, inline which is defined in the claim to mean "if multiple call-chains in the call-graph have a **common** call site, inlining the common call site in one or more of the call-chains, **without** inlining the common call site into **all** of said multiple call-chains having the common call site." (Emphasis added.) As discussed in the specification, "We introduce the concept of inline specialization whereby a call site, that is common to more than one call chain, gets inlined in only some of the call chains. Thus the common call site gets inlined in a specialized manner." (Page 26, lines 3-5.)

In other words, the method of claim 1 does **not** pertain to the **selection** of some call sites for inlining while other call sites are not inlined. Rather, the method of claim 1 pertains to a **common** call site (i.e. a call site is common to multiple call-chains) after it has *already been selected* to be inlined. According to claim 1, the common call site is inlined "in one or more of the call-chains, **without** inlining the

common call site into **all** of said multiple call-chains having the common call site.”
(Emphasis added.)

In contrast, Carini does not disclose or suggest any such inline **specialization**. The cited portions of Carini merely pertains to the automatic **selection** of certain call sites for inlining (while other call sites are not inlined). For example, col. 9, line 35-36, of Carini recites “selective automatic inlining” which “is performed during the IPA backward walk.” This clearly refers to the automatic **selection** of certain call sites for inlining (while other call sites are not inlined).

Carini does not disclose or suggest that a **common** call site is inlined “in one or more of the call-chains, **without** inlining the common call site into **all** of said multiple call-chains having the common call site.” (Emphasis added.) Therefore, applicants respectfully submit that claim 1 clearly overcomes this rejection.

Independent claim 7 recites a similar limitation to the limitation discussed above in relation to claim 1. In particular, claim 7 recites “computer-readable instructions stored in said memory and configured to inline a **common** call site in one or more call-chains in a call-graph, **without** inlining the common call site into **all** call-chains having the common call site.” (Emphasis added.) Hence, for at least the above-discussed reasons, claim 7 also clearly overcomes this rejection.

Independent claim 13 also recites a similar limitation to the limitation discussed above in relation to claim 1. In particular, claim 13 recites “an inline specialization feature such that given a call-graph, if multiple call-chains in the call-graph have a **common** call site, the common call site is inlined in one or more of the call-chains, **without** having to inline the common call site into **all** of the multiple call-chains having the common call site.” (Emphasis added.) Hence, for at least the above-discussed reasons, claim 13 also clearly overcomes this rejection.

Claims 2-6 depend from claim 1. Hence, for at least the above-discussed reasons, claims 2-6 also clearly overcome this rejection.

Claims 8-12 depend from claim 7. Hence, for at least the above-discussed reasons, claims 8-12 also clearly overcome this rejection.

Conclusion

For the above-discussed reasons, applicant respectfully submits that claims 1-13 are now patentably distinguished over the applied art. Favorable action is respectfully requested.

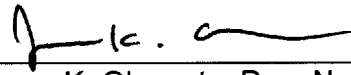
The Examiner is also invited to call the below-referenced attorney to discuss this case.

Respectfully Submitted,

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